### PATENT COOPERATION TREATY

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# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 27275/700150	FOR FURTHER	ACTION	See Form PCT/IPEA/416		
International application No. PCT/EP2004/050057	International filing dat 30.01.2004		Priority date (day/month/year) 30.01.2004		
International Patent Classification (IPC) or national classification and IPC A61K9/10, A61K9/48, A61K47/34					
Applicant PHARMACIA ITALIA S.P.A. et al.					
<ol> <li>This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.</li> </ol>					
<ol><li>This REPORT consists of a total</li></ol>	2. This REPORT consists of a total of 4 sheets, including this cover sheet.				
3. This report is also accompanied					
a. $\square$ sent to the applicant and	to the International Bur	eau) a total of sheets, a	as follows:		
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).					
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.					
b.   (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)), containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).					
4. This report contains indications re	elating to the following	tems:	·		
☐ Box No. I Basis of the op	inion				
☐ Box No. II Priority					
_	_				
<ul> <li>☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</li> <li>☐ Box No. IV Lack of unity of invention</li> </ul>					
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
Box No. VI Certain docume	ents cited				
	in the international app				
☐ Box No. VIII Certain observa	itions on the internatior	al application			
Date of submission of the demand		Date of completion of this	s report		
03.09.2004		17.02.2006			
Name and mailing address of the international preliminary examining authority:		Authorized Officer	ockes Patenten.		
European Patent Office D-80298 Munich Toulogie C			in the state of th		
Tel. +49 89 2399 - 0 Tx: 523656 epmu d		Toulacis, C	sian Filon		
Fax: +49 89 2399 - 4465		Telephone No. +49 89 23	199-		

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/EP2004/050057

_	Box No. I	Basis of the report			
1	With regard to the <b>language</b> , this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.				
	<ul> <li>□ This report is based on translations from the original language into the following language, which is the language of a translation furnished for the purposes of:</li> <li>□ international search (under Rules 12.3 and 23.1(b))</li> <li>□ publication of the international application (under Rule 12.4)</li> <li>□ international preliminary examination (under Rules 55.2 and/or 55.3)</li> </ul>				
2.	. With regard to the <b>elements</b> * of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):				
	Description, Pages				
	1-10	as originally filed			
	Claims, Numbers				
	1-15	as originally filed			
Drawings, Sheets					
	1/1	as originally filed			
	□ a seque	ence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing			
3.	The amendments have resulted in the cancellation of:  ☐ the description, pages ☐ the claims, Nos. ☐ the drawings, sheets/figs ☐ the sequence listing (specify): ☐ any table(s) related to sequence listing (specify):				
1.	☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).  ☐ the description, pages ☐ the claims, Nos. ☐ the drawings, sheets/figs ☐ the sequence listing (specify): ☐ any table(s) related to sequence listing (specify):				
	* If ite	m 4 applies, some or all of these sheets may be marked "superseded "			

#### INTERNATIONAL PRELIMINARY REPORT **ON PATENTABILITY**

International application No. PCT/EP2004/050057

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial Box No. V applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Inventive step (IS)

Yes: Claims

1-15

No:

Claims

Yes: Claims

1-15

No: Claims

Industrial applicability (IA)

Yes: Claims

1-15

Claims No:

2. Citations and explanations (Rule 70.7):

see separate sheet

#### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (SEPARATE SHEET)

International application No.

PCT/EP2004/050057

#### Re Item V.

#### **Claims 1-15**

- (N) A stable pharmaceutical <u>solid or semisolid dispersion</u> comprising I) at least one oxidation-susceptible and poorly water-soluble active agent, ii) a hydrophilic carrier and iii) a water-soluble vitamin E derivative, is not disclosed in the documents cited in the search report.
  - The same applies to the method of inhibiting oxidative degradation of said active agent according to claim 14, and the process for preparing said solid or semisolid dispersion according to claim 15.
- (IS) The object of the present application is to provide a stable pharmaceutical solid or semisolid dispersion comprising at least one oxidation-susceptible and poorly water-soluble active agent, in a hydrophilic carrier.
  - Said object has been achieved by adding a water-soluble vitamin E derivative (see description, example 4 and 5).
  - The documents cited in the search report address the problem of solubility of taxan-compounds, disclosing <u>solutions</u> of other poorly water-soluble agents using water-soluble vitamin E derivatives.
  - The use of water-soluble vitamin E derivatives in solid or semisolid dispersions comprising a hydrophilic carrier to inhibit oxidative degradation, is not suggested.
- (IA) The industrial applicability is given.